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US Patent No. (1):
6521263

Brief Summary Text (4):
Allergic rhinitis (e.g. hayfever) and asthma are typical results of the immune system response to inhaled molecules such as allergens and antigens. It has been established that the cross-linking of antibodies initiates a series of biochemical and pharmacological events including the release of potent mediators of inflammation, which results in allergic reactions, including: difficulty in breathing; itching; excess mucous secretion etc; up to and including life-threatening allergic reactions in some rare situations.

JURKAT**DSMZ**

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Cell line	JURKAT
Cell type	human T cell leukemia
DSMZ No	ACC 282
Origin	established from the peripheral blood of a 14-year-old boy with leukemia (ALL) at first relapse in 1976; often this cell line i (JURKAT and JM are derived from the same patient and are sister occasionally JM may be a subclone with somewhat divergent featur
References	Schneider et al., Int. J. Cancer 19: 621-626 (1977)
Depositor	Dr. Jun Minowada, Fujisaki Cell Center, Okayama, Japan

DSMZ Cell Culture Data

Morphology	round cells growing singly or in clumps in suspension
Medium	90% RPMI 1640 + 10% FBS + 2 mM L-glutamine
Subculture	optimal split ratio of about 1:2 to 1:3 every 2-3 days; seed out about 1×10^6 cells/ml; maintain at $0.5-1.5 \times 10^6$ cells/ml
Incubation	at 37 °C with 5% CO ₂
Doubling time	doubling time of about 25-35 hours
Harvest	maximal density at about 1.5×10^6 cells/ml
Storage	frozen with 70% medium, 20% FBS, 10% DMSO at about 5×10^6 cells

DSMZ Scientific Data

Mycoplasma	contamination was eliminated with Mycoplasma Removal Agent, then microbiological culture, RNA hybridization, PCR assays
Immunology	CD2+, CD3+, CD4(+), CD5+, CD6+, CD7+, CD8-, CD13-, CD19-, CD34+, TCRgamma/delta-
Fingerprint	multiplex PCR of minisatellite markers revealed a unique DNA pro
Species	confirmed as human with IEF of AST, LDH, NP
Cytogenetics	human flat-moded hypotetraploid karyotype with 7.8% polyploidy; -Y, -Y, -5, -16, -17, -22, add(2)(p21)/del(2)(p23)x2; sideline w der(5)t(5;10)(q11;p15), del(9)(p11)
Viruses	ELISA: reverse transcriptase negative; PCR: EBV-, HBV-, HCV-, HH HTLV-I/II-

DSMZ**Index****Prices****Dept. of Human and Animal Cell Lines**